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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/821,431	04/09/2004	Robert E. Cypher	5181-96100 1240		
35690 7590 03/02/2007 MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C. 700 LAVACA, SUITE 800			EXAMINER LAI, VINCENT		
AUSTIN, TX 78701			ART UNIT	PAPER NUMBER	
			2181		
			MAIL DATE	DELIVERY MODE	
			03/02/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/821,431	CYPHER ET AL.	
Examiner	Art Unit	
Vincent Lai	2181	

	Vincent Lai	2181	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED 05 February 2007 FAILS TO PLACE THIS	APPLICATION IN CONDITION FO	R ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or or this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliant time periods:	wing replies: (1) an amendment, aff stice of Appeal (with appeal fee) in o ce with 37 CFR 1.114. The reply mu	idavit, or other eviden compliance with 37 Cl	ce, which FR 41.31; or (3)
a) \boxtimes The period for reply expires $\underline{3}$ months from the mailing date			
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire I Examiner Note: If box 1 is checked, check either box (a) or TWO MONTHS OF THE FINAL REJECTION. See MPEP 7	ater than SIX MONTHS from the mailing (b). ONLY CHECK BOX (b) WHEN THE 06.07(f).	g date of the final rejection FIRST REPLY WAS F	on. ILED WITHIN
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ex under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office late may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	tension and the corresponding amount shortened statutory period for reply orig r than three months after the mailing da	of the fee. The appropri inally set in the final Offi	ate extension fee ce action; or (2) as
 The Notice of Appeal was filed on A brief in complifing the Notice of Appeal (37 CFR 41.37(a)), or any external a Notice of Appeal has been filed, any reply must be filed AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of th	s of the date of e appeal. Since
3. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brief	will not be entered by	ecause.
(a) They raise new issues that would require further co	nsideration and/or search (see NO ow);	TE below);	
(c) They are not deemed to place the application in be	tter form for appeal by materially re	ducing or simplifying	the issues for
appeal; and/or (d) ☐ They present additional claims without canceling a	corresponding number of finally rei	ected claims	
NOTE: (See 37 CFR 1.116 and 41.33(a)).		ootoa olamio.	
4. The amendments are not in compliance with 37 CFR 1.1		mpliant Amendment	(PTOL-324).
5. Applicant's reply has overcome the following rejection(s)		•	. ,
 Newly proposed or amended claim(s) would be a non-allowable claim(s). 	llowable if submitted in a separate,		
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows:		ll be entered and an e	explanation of
Claim(s) allowed:	· ·		
Claim(s) objected to: Claim(s) rejected			
Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, be because applicant failed to provide a showing of good an was not earlier presented. See 37 CFR 1.116(e). 	ut before or on the date of filing a N d sufficient reasons why the affidax	otice of Appeal will <u>no</u> vit or other evidence is	t be entered s necessary and
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar	overcome all rejections under appe	al and/or appellant fai	ls to provide a
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER			
11. The request for reconsideration has been considered by	ut does NOT place the application in	n condition for allowa	nce because:
see attached.12. Note the attached Information Disclosure Statement(s).	(PTO/SB/08) Paner No(s)		
13. Other:	(
			•
	•		

DETAILED ACTION

Response to Request for Reconsideration

The following is a response in regards to the remarks submitted on 2007 February 5 regarding U.S. Patent Application Serial Number 10/821,431.

No amendments were submitted and thus no new materials will be entered.

Applicant has given a satisfactory explanation of where "different subset of bits" is disclosed in the Specification. Examiner withdraws the 35 USC 112 rejection.

Examiner is not convinced of the arguments pertaining to the 35 USC 103 rejection.

Examiner contends that the branch predictor units 405 must have some sort of storage capacity. In paragraph 18, Loh teaches that branch history is accessed, meaning there must be some sort of storage element available for the branch predictor unit.

Applicant also argues, "it appears McFarling is using two hash functions (XOR) to access a single cache structure 144. In addition, Applicant notes that the second hash function is operating on at least a portion of the results from the first hash function."

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Without conceding that McFarling only accesses a single cache structure, it is noted that McFarling is used to teach the obviousness of using hashing functions and that it is unreasonable to believe that McFarling and Loh can be combined without adaptations. Loh teaches multiple cache structures that can utilize hashing functions and thus to properly combine Loh and McFarling, one having ordinary skill in the art would utilize more than one hash function.

Applicant argues, "The Examiner is merely speculating that Loh teaches how the predictions are performed."

Loh alludes to such disclosure, but it is further noted that McFarling explicitly teaches bimodal prediction (See paragraph 14).

Applicant also states "Applicant can find absolutely no teaching of [saturating counters] in Loh."

It is noted that office action refers to McFarling as teaching the saturating counters, which can be found in paragraph 14.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent Lai whose telephone number is (571) 272-6749.

The examiner can normally be reached on M-F 8:00-5:30 (First BiWeek Friday Off).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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February 26, 2007

Vincent Lai Examiner

47xt Unit 2181

DONALD SPARKS

SUPERVISORY PATENT EXAMINER